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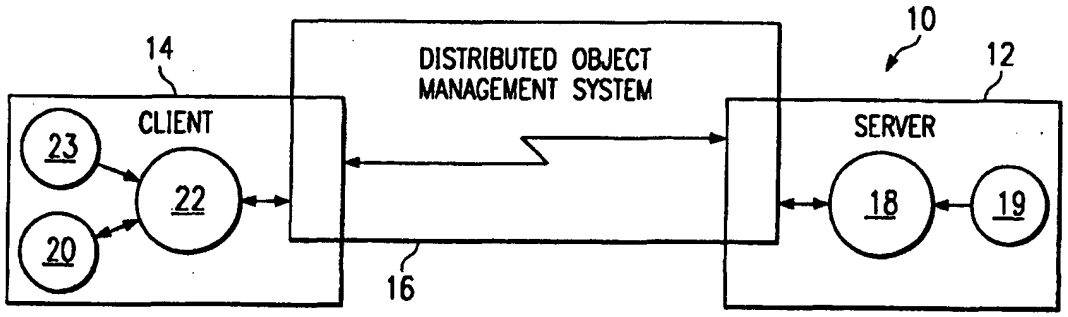

(57) Abstract

A software system is disclosed which provides for dynamic generation of remote proxy classes at run time through a distributed object management system (16). The software system provides for a client system (14) and server system (12) which communicate via distributed object management system (16) which operates over a distributed computer network to allow communications between client system (14) and server system (12). Any inter-object communication will invoke a remote proxy generation control module (34) if a remote proxy class (23) does not already exist for the requested subject object (18). A remote proxy generation control module (34) is provided which first invokes reflection engine (36) to determine the applicable information of subject class (19). Next, a communication enabling module (40) determines and inserts the appropriate computer code to allow local object (20) to communicate with subject object (18) utilizing remote proxy object (22). After the system determines what information is required by remote proxy class (23), byte code generator (42) automatically generates the executable code containing remote proxy class (23). Finally, class loader (46) loads remote proxy class (23) onto the system and creates a new instance which is remote proxy object (22).

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INTERNATIONAL SEARCH REPORT

In ational Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F9/44 G06F9/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	"IMPROVED PROCESS FOR VISUAL DEVELOPMENT OF CLIENT/SERVER PROGRAMS" IBM TECHNICAL DISCLOSURE BULLETIN,US,IBM CORP. NEW YORK, vol. 41, no. 1, 1 January 1998 (1998-01-01), pages 281-283, XP000772108 ISSN: 0018-8689	1,8
Y A	the whole document	2,7,9,13 3-6, 10-12

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
19 April 2000	28/04/2000

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Beltrán-Escavy, J

INTERNATIONAL SEARCH REPORT

Int .tional Application No
PCT/US 99/24510

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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